

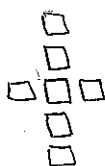
Algebra 2H
Comparing Patterns – Challenge problem!

Name: _____
Date: _____

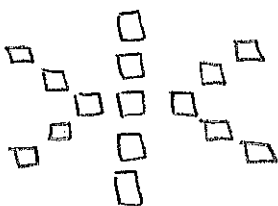
Find the explicit formula for each sequence. Then answer the questions below.

Sequence A:

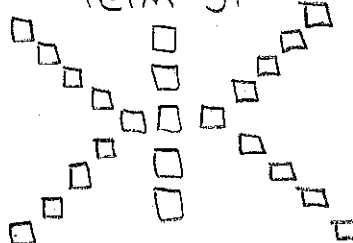
Term 1:



Term 2:



Term 3:

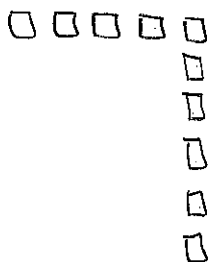


How many squares would be in the 15th term?

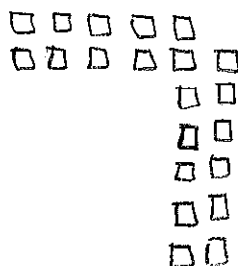
For what term would there be 159 squares?

Sequence B:

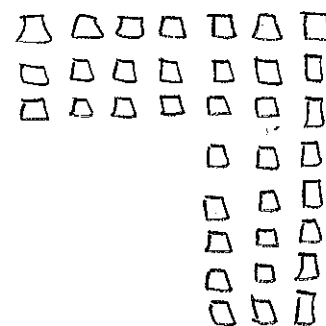
Term 1:



Term 2:



Term 3:



How many squares would be in the 15th term?

For what term would there be 253 squares?

For what term would the two sequences have equal numbers of squares? How many squares would there be?